ReacTITE 8043 is a one-part, moisture-curing polyurethane adhesive developed for general wood assembly. It offers a 9-11 minute open time and is formulated to provide superior performance on high moisture content wood. ReacTITE 8043 is a 100% solid, single component adhesive with no VOCs.

PHYSICAL PROPERTIES

**Chemical family description:** Polyurethane adhesive  
**Appearance:** Amber liquid  
**Typical viscosity (cps):** 1400 - 5700 cps (3/12/77°F)  
**Weight solids (%):** 100%  
**Open Time (minutes):** 9 - 11 minutes  
**Specific gravity:** 1.15  
**Weight pounds per gallon:** 9.60

KEY PRODUCT FEATURES

- 9-11 minute open time
- Excellent for gluing wet or high moisture content wood
- 100% solids with zero VOCs
- Excellent for general wood assembly applications

APPLICATION GUIDELINES

**Moisture content:** Liquid urethanes are formulated for gluing high moisture content lumber, up to 19% MC.

**Minimum use temperature:** Curing temperatures should be higher than the minimum use temperature of the adhesive. This includes the temperature of the stock to be glued as well as the air and adhesive temperatures. If the temperatures are below the minimum use temperatures you will see a white, chalky appearance of the glue line. These bonds are usually weak.

**Stock preparation:** The preparation of the stock to be glued is extremely important. Joints cut from rip saws should be free of saw marks. They should also be straight and square. Moulded or jointed stock should be free of knife marks. Glazed or burnished joints will prevent adhesive penetration and should be guarded against. Sanding to thickness should be performed using higher than 50 grit abrasives. When possible, glue joints should be prepared and glued the same day.

**Spread:** Generally, 35-50 pounds of adhesive per 1,000 square feet or 170-250 grams per square meter of glue line is adequate. Verify adequate glue coverage by monitoring for squeeze out along the glue line once the panels are under pressure. A Web-based spread calculator can be found at [www.franklinadhesivesanepolymers.com](http://www.franklinadhesivesanepolymers.com).

**Pressure:** Pressure is dependent upon the species or material to be glued and joint preparation. Direct contact of the gluingsurfaces is required to obtain maximum strength. The use of a compressometer will aid in accurately measuring the amount of pressure being applied to the gluing area. Suggested clamp locations for various wood densities are eight to fifteen inches (20-38 cm) apart and two inches (five cm) from the end of the panel to evenly distribute pressure along the entire length of the glue line. A Web-based pressure calculator can be found at [www.franklinadhesivesanepolymers.com](http://www.franklinadhesivesanepolymers.com).
Assembly time: The assembly time is influenced by many factors some of which include glue spread, moisture content of the stock, porosity of the stock, environmental conditions and adhesive choice. Assembly times of five to ten minutes are approximate. It is desirable to see a bead of adhesive squeeze out around the perimeter of the bottom panel of the stack.

At 70ºF and 50% relative humidity, approximately 6 wet mils:
Open Assembly Time – 10 minutes
Total Assembly Time – 12 minutes

Press/ clamp time: Press times are dependent on the adhesive used, gluing stock type, moisture content of the stock and environmental conditions. Press times can range from a minimum press time of 30 minutes to greater than two hours. Shorter times are required under ideal conditions when using soft wood species at moisture content slightly less than eight to ten percent and factory temperatures of 68 degrees Fahrenheit/ 20 degrees Celsius. Longer press times will be required for higher density species, higher moisture contents and colder factory temperatures. It is recommended that optimum press times be determined in actual plant conditions recognizing that seasonal changes may lead to variable requirements.

Machining/ post process conditioning: After the minimum clamping time period, the panel will develop enough handling strength and can be removed and stacked out of the press. Twenty-four hours of cure is recommended before further machining. Three or four days may be required to eliminate sunken joints caused by residual moisture in the glue line.

Clean-up: Consult your Franklin representative for specific application recommendations. For clean-up, use Dynasolve (by Dynaloy), mineral spirits, acetone, or isopropyl alcohol on wet adhesive and mechanical removal for cured adhesive.

STORAGE AND HANDLING

Shelf life: Best if used within six months of date of manufacture. Mix before use for best results. Product is freeze-thaw stable.

For additional questions, Franklin’s technical service team is available at 1.800.877.4583. 24/7 technical service is available online at www.franklinadhesivesandpolymers.com.

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